

MATH 116

Applications of Calculus in Business and Management

Course description: Calculus with applications in maxima, minima, optimization, and other problems related to business management and economics. Relations and functions, exponential and logarithmic functions, systems of equations, matrices, determinants.

This course may not be substituted for MATH 190.

Prerequisites: MATH 113, or permission of department head.

Text: *College Mathematics for Business and Management Students* by Liang, Manougian, and Mead (1985), MSU Printing.

Calculator: The *Casio 9850G Plus* will be used for classroom demonstrations. It is recommended that you check with the instructor before using a calculator other than the *Casio 9850G Plus* for this class. Some testing will be conducted without the use of the calculator.

For details about **your** instructor's contact information, office hours, and policies, go to <http://www.faculty.mcneese.edu/> and access your instructor's website.

Course material

Course material will include the following topics:

TOPIC	CHPT.	SECTIONS	APPROX. TIME
Review material, focus on function concept and notation	Ch. 1	omit 1.5, max/min in 1.4, and computer appl.	~ 2 weeks
Review material	Ch. 2	omit 2.4, 2.5, and computer appl.	~ 1.5 weeks
Limit concept, intuitively only	Ch. 3	omit complicated limits	~ 2.5 weeks
Derivatives, focus on using rather than deriving or proving rules	Ch. 4	theorem 4.12, formula 4.4 in 4.9	~ 3 weeks
Chapter 5	Ch. 5	omit 5.4	~ 2 weeks
Integral as area under curve, focus on intuition, evaluation using the Fund. Thm.	Ch. 6	5, 6, 7, maybe 8	~ 2 weeks

Assessment

The Semester score for the course will be calculated by using the weights (%) indicated below:

WEIGHT (%)

75% Semester average Tests _____ %

		Assignments	_____ %
25%	Final exam grade	_____	_____ %

The Semester letter grade in the course will be assigned according to the scale below:

SEMESTER GRADE SEMESTER SCORE

90–100	A
80–89	B
70–79	C
60–69	D
0–59	F

Notes:

1. In cases of an **excused** absence, the instructor reserves the right to reweight the final exam in lieu of a make-up test.
2. In the case where a student's score on his final exam indicates **exceptional achievement** above and beyond that indicated by the semester average, the instructor reserves the right to reweight the value of the final exam in computing the semester grade.

Please read the Department's [Attendance Policy](#).

Instructor's office hours can be found on the MSU web site at

<http://www.faculty.mcneese.edu/>

Click on individual instructor to view their web page. Or navigate from MSU Home Page; select *Faculty & Staff*, select *Faculty Web Server*.

Students should visit the MSU web page at

<http://www.mcneese.edu/policy/diversity.htm>

for information about diversity awareness and sexual harassment policies and procedures, as well as the Americans with Disabilities Act.

Students should also visit the MSU web page at

<http://www.mcneese.edu/integrity>

for information on the Academic Integrity Policy.

ANY STUDENT WITH A DISABILITY IS ENCOURAGED TO CONTACT THE OFFICE OF SERVICES FOR STUDENTS WITH DISABILITIES IN DREW HALL, ROOM 200, VOICE (337) 475-5916, HEARING IMPAIRED (337) 475-5722. IT IS EACH STUDENT'S RESPONSIBILITY TO REGISTER WITH THE OFFICE OF SERVICES FOR STUDENTS WITH DISABILITIES WHEN REQUESTING A REASONABLE ACCOMMODATION.

One week of summer school is equivalent to 2 ½ weeks of Fall or Spring classes

**DMCS**

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